Aeronautics Educator Guide			
2003 Science			
Content Standards			
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Content Standards			
New Mexico Science			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	NM	SCI.2.II.I.III.1	Describe how the strength of a push or pull affects the change in an object's motion (e.g., how a big or small push affects how high a swing rises).
Air Engines (12-16)	NM	SCI.2.III.I.I.5	Know that science has discovered many things about objects, events, and nature and that there are many more questions to be answered.
Rotor Motor (69-75)	NM	SCI.2.II.I.III.1	Describe how the strength of a push or pull affects the change in an object's motion (e.g., how a big or small push affects how high a swing rises).
Making Time Fly (80-86)	NM	SCI.2.I.I.II.1	Understand that in doing science it is often helpful to work with a team and share findings.
Making Time Fly (80-86)	NM	SCI.2.III.I.I.4	Understand that everybody can do science, invent things, and formulate ideas.
Where is North? The Compass Can Tell Us (87-90)	NM	SCI.2.I.I.I.3	Make predictions based on observed patterns as opposed to random guessing.
Dunked Napkin (17-22)	NM	SCI.2.I.I.I.4	Follow simple instructions for a scientific investigation.
Dunked Napkin (17-22)	NM	SCI.2.III.I.I.5	Know that science has discovered many things about objects, events, and nature and that there are many more questions to be answered.
Paper Bag Mask (23-28)	NM	SCI.2.I.I.I.3	Make predictions based on observed patterns as opposed to random guessing.
Paper Bag Mask (23-28)	NM	SCI.2.I.I.III.2	Measure length, weight, and temperature with appropriate tools and express those measurements in accurate mathematical language.
Paper Bag Mask (23-28)	NM	SCI.2.III.I.I.5	Know that science has discovered many things about objects, events, and nature and that there are many more questions to be answered.
Wind in Your Socks) (29-35)	NM	SCI.2.I.I.III.2	Measure length, weight, and temperature with appropriate tools and express those measurements in accurate mathematical language.
Wind in Your Socks) (29-35)	NM	SCI.2.II.I.I.1	Observe that properties of substances can change when they are mixed, cooled, or heated (e.g., salt dissolves in water, ice melts).

Wind in Your Socks) (29-35)	NM	SCI.2.III.I.I.5	Know that science has discovered many things about objects, events, and nature and that there are many more questions to be answered.
Bag Balloons (40-43)	NM	SCI.2.II.I.I.1	Observe that properties of substances can change when they are mixed, cooled, or heated (e.g., salt dissolves in water, ice melts).
Right Flight (52-59)	NM	SCI.2.I.I.I.3	Make predictions based on observed patterns as opposed to random guessing.
Delta Wing Glider (60-68)	NM	SCI.2.I.I.I.3	Make predictions based on observed patterns as opposed to random guessing.
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Grade 3			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	NM	SCI.3.I.I.I.1	Make new observations when discrepancies exist between two descriptions of the same object or phenomenon to improve accuracy.
Air Engines (12-16)	NM	SCI.3.I.I.I.3	Use numerical data in describing and comparing objects, events, and measurements.
Air Engines (12-16)	NM	SCI.3.I.I.II.2	Understand that predictions are based on observations, measurements, and cause-and-effect relationships.
Air Engines (12-16)	NM	SCI.3.I.I.III.1	Use numerical data in describing and comparing objects, events, and measurements.
Rotor Motor (69-75)	NM	SCI.3.I.I.II.2	Understand that predictions are based on observations, measurements, and cause-and-effect relationships.
Rotor Motor (69-75)	NM	SCI.3.I.I.III.2	Pose a question of interest and present observations and measurements with accuracy.
Flight: Interdisciplinary Learning Activities (76-79)	NM	SCI.3.I.I.I.4	Collect data in an investigation and analyze those data.
Making Time Fly (80-86)	NM	SCI.3.I.I.III.3	Use various methods to display data and present findings and communicate results in accurate mathematical language.
Where is North? The Compass Can Tell Us (87-90)	NM	SCI.3.I.I.III.2	Pose a question of interest and present observations and measurements with accuracy.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	NM	SCI.3.I.I.I.4	Collect data in an investigation and analyze those data.
Dunked Napkin (17-22)	NM	SCI.3.I.I.I.2	Recognize the difference between data and opinion.
Dunked Napkin (17-22)	NM	SCI.3.I.I.I.4	Collect data in an investigation and analyze those data.
Dunked Napkin (17-22)	NM	SCI.3.I.I.II.2	Understand that predictions are based on observations, measurements, and cause-and-effect relationships.

Dunked Napkin (17-22)	NM	SCI.3.I.I.III.2	Pose a question of interest and present observations and measurements with accuracy.
Paper Bag Mask (23-28)	NM	SCI.3.I.I.I.3	Use numerical data in describing and comparing objects, events, and measurements.
Paper Bag Mask (23-28)	NM	SCI.3.I.I.III.1	Use numerical data in describing and comparing objects, events, and measurements.
Paper Bag Mask (23-28)	NM	SCI.3.I.I.III.2	Pose a question of interest and present observations and measurements with accuracy.
Wind in Your Socks) (29-35)	NM	SCI.3.I.I.I.1	Make new observations when discrepancies exist between two descriptions of the same object or phenomenon to improve accuracy.
Wind in Your Socks) (29-35)	NM	SCI.3.I.I.I.2	Recognize the difference between data and opinion.
Wind in Your Socks) (29-35)	NM	SCI.3.I.I.I.3	Use numerical data in describing and comparing objects, events, and measurements.
Wind in Your Socks) (29-35)	NM	SCI.3.I.I.I.4	Collect data in an investigation and analyze those data.
Wind in Your Socks) (29-35)	NM	SCI.3.I.I.III.1	Use numerical data in describing and comparing objects, events, and measurements.
Wind in Your Socks) (29-35)	NM	SCI.3.I.I.III.2	Pose a question of interest and present observations and measurements with accuracy.
Sled Kite (44-51)	NM	SCI.3.I.I.III.2	Pose a question of interest and present observations and measurements with accuracy.
Right Flight (52-59)	NM	SCI.3.I.I.II.2	Understand that predictions are based on observations, measurements, and cause-and-effect relationships.
Delta Wing Glider (60-68)	NM	SCI.3.I.I.II.2	Understand that predictions are based on observations, measurements, and cause-and-effect relationships.
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Grade 4			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	NM	SCI.4.II.I.III.2	Describe the motion of an object by measuring its change of position over a period of time.
Flight: Interdisciplinary Learning Activities (76-79)	NM	SCI.4.II.I.III.2	Describe the motion of an object by measuring its change of position over a period of time.
Dunked Napkin (17-22)	NM	SCI.4.I.I.I.3	Conduct multiple trials to test a prediction, draw logical conclusions, and construct and interpret graphs from measurements.
Paper Bag Mask (23-28)	NM	SCI.4.I.I.III.1	Conduct multiple trials using simple mathematical techniques to make and test predictions.
Paper Bag Mask (23-28)	NM	SCI.4.I.I.III.2	Use mathematical equations to formulate and justify predictions based on cause-and-effect relationships.
Paper Bag Mask (23-28)	NM	SCI.4.II.I.III.2	Describe the motion of an object by measuring its change of position over a period of time.

Wind in Your Socks) (29-35)	NM	SCI.4.II.III.II.3	Know that local weather information describes patterns of change over a period of time (e.g., temperature, precipitation symbols, cloud conditions, wind speed/direction).
Air: Interdisciplinary Learning Activities (36-39)	NM	SCI.4.II.III.II.3	Know that local weather information describes patterns of change over a period of time (e.g., temperature, precipitation symbols, cloud conditions, wind speed/direction).